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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Yuan Yan Chen

Group Art Unit: Not Assigned

Serial No.: 09/808,101

Examiner: Not Assigned

Filed: March 15, 2001

For: APPARATUS AND METHOD FOR  
FUZZY ANALYSIS OF STATISTICAL  
EVIDENCE

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

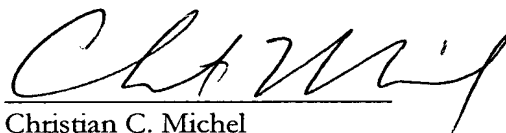
In accordance with 37 C.F.R. §§ 1.56 and 1.97-1.98, Applicant hereby transmits copies of the documents listed in the attached Form PTO-1449, which may be deemed material to the examination of the above-identified application.

As indicated, all documents are in English and therefore, no statement of relevance is required. Also, since the present Information Disclosure Statement is being filed prior to issuance of a first Office Action on the merits, no certification under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(b) is required.

The Examiner is requested to consider the attached documents in connection with the above-identified application and to return a copy of Form PTO-1449 to the Applicant with the Examiner's initials in the spaces provided.

Submission of this Information Disclosure Statement does not constitute an admission by the Applicant as to the materiality of the attached documents to the application, nor do the Applicant waive any right to challenge the validity of the documents as prior art should such action be deemed appropriate.

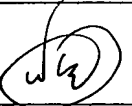

Respectfully submitted,

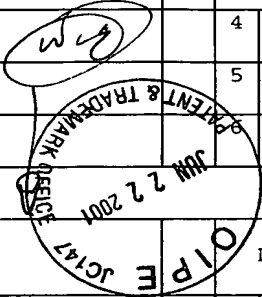
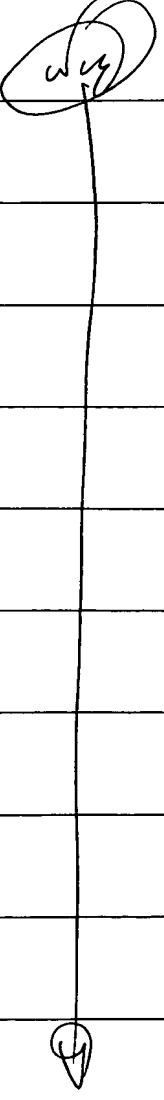
A handwritten signature in black ink, appearing to read 'C. Michel', written over a horizontal line.

Christian C. Michel  
Attorney for Applicant  
Reg. No. 46,300

Roylance, Abrams, Berdo & Goodman, L.L.P.  
1300 19<sup>th</sup> Street, N.W., Suite 600  
Washington, D.C. 20036-2680  
(202) 659-9076

Dated: 6/22/01

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 39900A		SERIAL NO. 09/808,101	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Yuan Yan Chen			
				FILING DATE March 15, 2001		GROUP 2, 21	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER		DATE	NAME	CLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER		DATE	COUNTRY	CLASS	TRANSLATION YES NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)							
		Edward H. Shortliffe et al., "A Model of Inexact Reasoning in Medicine", <u>Mathematical Biosciences</u> 23, pages 351-379 (1975).					
		Warren S. McCulloch et al., "A Logical Calculus of the Ideas Immanent in Nervous Activity", <u>Bulletin of Mathematical Biophysics</u> , Vol. 5, pages 115-133 (1943).					
		Ron Kohavi, "A Study of Cross-Validation and Bootstrap for Accuracy Estimation and Model Selection", <u>Learning</u> , pages 1137-1143.					
		David W. Scott, "Multivariate Density Estimation: Theory, Practice, and Visualization", <u>A Wiley-Interscience Publication</u> , John Wiley & Sons, Inc., pages 125-127 (1992).					
		Solomon Kullback, Ph.D., "Information Theory and Statistics", <u>Dover Publications, Inc., New York</u> , pages 1-7 (1959).					
		B. Schwizer et al., "Associative Functions and Abstract Semigroups", pages 69-81.					
		Vladimir N. Vapnik, "Statistical Learning Theory", pages 421-441 (1998).					
		David D. Lewis, "Naïve (Bayes) at Forty: The Independence Assumption in Information Retrieval", 12 pages.					
		Jinsong Cai et al., "Supervised Machine Learning Algorithms for Classification of Cancer Tissue Types Using Microarray Gene Expression Data", <a href="http://www.cpmc.columbia.edu/homepages/jic7001/cs4995/project1.htm">http://www.cpmc.columbia.edu/homepages/jic7001/cs4995/project1.htm</a> , pages 1-7.					
		Mark Craven et al., "Learning to Extract Symbolic Knowledge from the World Wide Web", Appears in Proceedings of 15 <sup>th</sup> National Conference on Artificial Intelligence (AAAI-98), 8 pages.					
	Paul N. Bennett, "Assessing the Calibration of Naïve Bayes' Posterior Estimates", School of Computer Science, Carnegie Mellon University, Pittsburgh, Sept. 12, 2000, CMU-CS-00-155, 8 pages.						
		Mehran Sahami et al., "A Bayesian Approach to Filtering Junk E-Mail", 8 pges:					
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 39900A		SERIAL NO. 09/808,101							
INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)				APPLICANT Yuan Yan Chen		GROUP 2121							
				FILING DATE March 15, 2001									
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		4	9	6	5	7	2	5	10/1990	Rutenberg			
		5	2	8	7	2	7	2	02/1994	Rutenberg et al.			
		1	9	2	3	5	1		02/2001	Persaud			
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)													
		Yuan Yan Chen, "Statistical Inference Based on the Possibility and Belief Measures", <u>American Mathematical Society</u> , Vol. 347, No. 5, pages 1855-1863 (May 1995).											
		Yuan Yan Chen, "Fuzzy Analysis of Statistical Evidence", <u>IEEE Transactions on Fuzzy Systems</u> , Vol. 8, No. 6, pages 796-799 (Dec. 2000).											
		David J.C. MacKay, "A Practical Bayesian Framework for Backpropagation Networks", <u>Computation and Neural Systems</u> , California Institute of Technology, pages 448-472 (1992).											
		David H. Ackley et al., "A Learning Algorithm for Blotzmann Machines", <u>Cognitive Science</u> 9, pages 147-167, (1985).											
		J.J. Hopfield, "Learning Algorithms and Probability Distributions in Feed-forward and Feed-back Networks", <u>Proc. Natl. Acad. Sci. USA</u> , Biophysicss, Vol. 84, pages 8429-8433 (Dec. 1987).											
		J.J. Hopfield, "Neurons with Graded Response Have Collective Computational Properties Like Those of Two-state Neurons", <u>Proceedings of the National Academy of Sciences</u> 81: 3088-3092, pages 579-583 (1984).											
		I. Kononenko, "Bayesian Neural Networks", <u>Biological Cybernetics</u> , pages 361-370 (1989).											
		M.J. Frank, "On the Simultaneous Associativity of $F(x,y)$ and $x+y-F(x,y)$ ", <u>Aequationes Mathematicae</u> 19, University of Waterloo, pages 194-226 (1979).											
	Stephen Grossberg, "The Adaptive Brain I: Cognition, Learning, Reinforcement, and Rhythm", pages 448-485 (1987).												
	Yuan Yan Chen, "Belief Logic Systems", <u>Analysis and Management of Uncertainty: Theory and Applications</u> , pages 55-64 (1992).												
		Yuan Yan Chen, "Bernoulli Trials: From a Fuzzy Measure Point of View", <u>Journal of Mathematical Analysis and Applications</u> , Vol. 175, No. 2, pages 392-404 (1993).											
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